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A BIBLIOGRAPHY OF THE MANUAL ARTS

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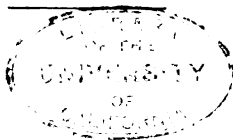
MANUAL ARTS

BY

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PREFACE.

In presenting this bibliography of the Manual Arts the author realizes fully that a partial or even a complete list of titles in any subject or branch of school work has little intrinsic value. It is only when a bibliography becomes a reference book for work in the subject treated that it best serves its purpose.

The idea has been widely held by some even in manual training work, that there is scant material published on the subject. For the past five years, during which time the preparation of these pages has been going forward, the writer has been convinced to the contrary. Few teachers know exactly what has appeared in print bearing upon hand work, hence there arises a demand for a bibliography of the subject. It is then partly with the view of meeting this demand that this book is published.

Much that has been written is, of course, of questionable value. Many of the earlier texts have served their purpose well, newer thought and methods coming in to meet more exactly the needs and conditions of the time. In many respects a short select list of titles would prove as valuable to the teacher of the Manual Arts as will the present volume. This more complete list, however, will meet the needs of the educator and investigator, and preserve in permanent form the record of that branch of education which has risen into prominence more rapidly, perhaps, than has any other.

As this bibliography is intended for the use of the instructor in hand work not only, but for the grade teacher as well, it has been thought wise to classify the titles under several heads. The arrangement of authors in alphabetical order seemed the only practical method. At the suggestion of prominent teachers of domestic science it was thought best to give a special chapter to the general topic, "Home Science," no attempt having heretofore been made to list such titles as are here given. Books or articles dealing with both theoretical and practical phases of the problem have been placed in one or another of the lists as thought best.

Many of the books or articles mentioned are out of print.

These can only be had in private or public libraries. Some of these treatises and reports are, indeed, of the very best.

One of the chief values claimed for the bibliography lies in the comments following certain of the titles, thus rendering the selection of a book less a matter of "guess work" than would otherwise be the case.

No doubt the compiler of the volume will receive some criticism for the manner in which he has referred to certain of the titles listed. No comment, however, has in the case of an American publication been made on hear-say evidence. Some note or word of comment has been given where, in the writer's judgment, it was most deserved. Those books best treating any given topic have been given special mention. There are, perhaps, some equally meritorious works upon which no comment is made. In such cases the writer has had no opportunity of examining the books in question.

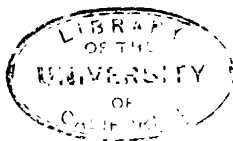
While no complete bibliography of the Manual Arts has before been published, the author desires to give credit to several sources for valuable assistance rendered. The following have been freely consulted: "A Bibliography of Manual Training," prepared by the Eastern Manual Training Association; "Bulletin No. 9 of the High School Department of the University of the State of New York, Manual Training Syllabus;" "Manual Training Made Serviceable to the School," Dr. Woldemar Götze; "Contributions to the Bibliography of Manual Training and Industrial Education," by Mary Danna Hicks, in the Report on Manual Training and Industrial Education, Boston, 1893; "Eighth Annual Report of the Commissioner of Labor," Washington, D. C., 1892; "Bibliography of Child Study," Report of the Commissioner of Education, 1897-98.

Thanks are due Mrs. Grace E. Dutton, Director of the Department of Domestic Economy of Throop Polytechnic Institute, for suggestions on the chapter on Home Science; to Mr. Paul Boehncke, Instructor in Modern Languages, for assistance on titles published in foreign languages, to Mr. Ralph Cross, of the Commercial Department of the school, who has assisted in the mechanical details and to many American and European teachers for aid and advice.

A. H. C.

October, 1902.

Throop Polytechnic Institute.



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- Knapp, E. S. *Raffia and Reed Weaving, also Paper and Cardboard Construction*. Milton Bradley, 1900. Pp. 132. 50c. For the teacher of primary forms of hand work, and for the regular grade instructor, this book is useful. The ideas given are good and the projects rational. The illustrations are not up to the standard.
- Littlewood, W. and K. *Cane and Rush Weaving on Sloyd Principles*. London: Philip. 1897. Pp. 29. 60c.
- Walker, Louisa. *Varied Occupations in Weaving*. (Illus.) Macmillan, 1895. Pp. 224. \$1.00. Shows the application of weaving in the making of mats, frames, baskets, furniture, etc. Deals with paper, string cane and straw.
- White, Mary. *How to Make Baskets*. Double day. Page, 1902. Pp. 194. \$1 00. The best book for class use obtainable. Directions explicit and illustrations clear.

PAPER AND CARDBOARD.

- Bartsch, F. R. *Constructive Work; A Sequence of Lessons in Paper and Cardboard*. Chicago; Normal School Publishing House, 1899. Pp. 110. This book contains many good sug-

- gestions for the wideawake teacher, but is too miscellaneous for the grade instructor. Some neat and useful articles are shown, but are hardly arranged in order of difficulty.
- Beckwith, Helen M. *Story Telling with the Scissors.* (Illus.) Bradley, 1899. Pp. 62.
- Chamberlain, Arthur H. *Educative Hand Work Manuals, Part II. Paper and Cardboard Construction.* The Whitaker and Ray Co. Pp. 125. 1901. 75 cents. An attempt has been made to place before teachers something that can actually be used, rational in its character, and broad in its scope. While "system" has not been the prime thought in mind in the arrangement of the work, the "haphazard" idea so common to manual training has been entirely excluded. Suggestive rather than prescribed work is aimed at. The aesthetic and utility elements are emphasized. The materials needed are cheap and easily manipulated, and color blending, drawing and constructive work are interconnected.
- Cremins, Julia C. *Constructive Work in Paper for Primary Grades.* (Illus.) *New York Teachers' Magazine*, 2:2: 3; 4
- Goodrige, Grace. *Scissors and Paste.* (Illus.) Flanagan, 1899. Pp. 12 and 50 plates.
- Heath, F. *Pattern Making by Paper Folding.* Longmans, 1895.
- Heaton, William. *Manual of Cardboard Modeling.* London: Newmann, 1894. Pp. 164. 5s 6d.
- Hewett, G. C. *Swedish Cardboard.* Halifax: King.
- Hudson, J. C. *A Course of English Cardboard Work.*
- Hudson and Cooke. *Cardboard Modeling.* London: Newmann, 1896. Pp. 29 and 27 cards. 3s.
- Kenyon, W. J. *First Years in Handicraft.* Baker & Taylor Co., 1901. Pp. 124. \$1.00. One of the most suggestive little books yet written on the subject. The directions are clear and the illustrations add much to the value of the work. The materials needed are cheap; the processes comparatively simple, and the work can be done at home.
- Lambert, F. C. *Paper Work.* Dawborn & Ward. 1s 6d.
- Nelson, W., and Sutcliffe, A. *Cardboard Modeling, Course III.* London: Philip. 32 plates. 75c. A course in cardboard done almost entirely with the knife. The models are chiefly of three kinds—flat forms, type solids and a few useful articles. They are covered with lithograph papers. The

rectilinear form of model is used almost exclusively, curved lines being given little place. Accuracy and judgment are necessary in the working out of the projects, but these, and the order of presentation, are not such as to best meet the pupil's needs. Well written and clear.

Ricks, G., and Vaughan, J. *Modeling in Cardboard*. London, Cassell.

Smith, Robert M. *Construction Work in Cardboard and Paper*. A. Flanagan, 1900. Pp. 154. 75c. The author has outlined work for grades I. to IV., inclusive; simple work in weaving; making of geometric forms, such as the cube and the arranging of them in various combinations. The book also contains a course in wood work for the fifth grade. Many suggestions are offered but the construction work is probably too limited in its content. Grade teachers generally will find many useful hints throughout the book.

Snell, Anna. *Geometrical Instruction through Hand and Eye*. London, Newmann. 2s. A guide to the use of paper cutting and tablet laying and paper folding.

Trybom, J. H. *Cardboard Construction*. Bradley, 1899. Pp. 69. \$1.00. A good book for the manual training or grade teacher. Some of the forms do not prove attractive to the pupil, but they all contain elements of usefulness. The lack of artistic feeling is noticeable.

Walker, Louise. *Instructive and Ornamental Paper Work*. Scribner, 1901. Pp. 184.

Weaver, E. A. *Paper and Scissors in the Schoolroom*. Springfield: Bradley, 1893. Pp. 77. 25c. The suggestions are not new but are quite substantial. The illustrations add to the value of the volume.

Wurst, Edward F. *Construction Work*. Chicago: Frederick A. Watt, 1900. Pp. 107. 75c. A series of exercises of a simple nature with paper materials. The articles made have more or less intrinsic value, the exercises being made the basis for work in number chiefly, while literature, history and natural science are touched upon. (Illustrated.)

WOOD WORK.

- Abbott, Frederick B. *Manual Training in the Grades.* (Illustrated.) The Author. Emporia, Kansas, 1900. Pp. 19. 50c.
- Adams, Henry. *Joints in Woodwork.* London: Corvell, 1894. Pp. 43.
- Andren, Miss. *Sloyd Models.* London: Newmann, 1896. 48 sheets. 5s.
- Ball, Frank H., and Fowler, Geo. J. *Picture Frame Making by Model Methods.* Photo Beacon Co., 1900. Pp. 30. 25c.
- Barran, T. W. *Bamboo Work.* London: Dawborn & Ward. 1s 6d.
- Barter, S. *Manual Instruction; Wood Work.* London: Whitaker, 1892. Pp. 343. 6s. (Illustrated.) A series of exercises and models in benchwork given in detail with cuts of the various processes involved in the construction of the same. Also chapters on drawing, timber and tools, work-room, equipment, etc. Altogether rather a comprehensive book, but narrow in its scope for the needs of the American school of to-day.
- Barter, S. *Model Joint Wall Sheets.* London: Cassell. 8 sheets, each, 2s 6d.
- Benson, W. A. S. *Elements of Hand Craft and Design.* The ideas are rational and the statements clear.
- Berlin *Course of Easy Woodwork.* London: Newmann, 1895. P., 47, and 11 plates. 2s. Twigs and branches are chiefly used.
- Bitmead, Richard. *Cabinet Maker's Guide to the Construction of Cabinet Work.* London: Dawborn & Ward. 2s 6d.
- Bower, J. A. *How to Make Common Things.* London: Society for Promotion of Christian Knowledge, 1893 \$1.25.
- Boxall, C. W. D. *Illustrated Guide in the Use of Tools.* London: Newmann.
- Cabinet Making for Amateurs.* Dawborn & Ward. 2s 6d.
- Carter and Roosevelt. *Manual Training for Eight Years.* (Illus.) Denver: State Supt. of Public Instruction, 1898. Pp. 85.
- Compton, A. G. *First Lessons in Woodworking.* American Book Co., 1888. Pp. 188. 30c. A book for beginners at the

bench, but somewhat narrow in its scope. The problems are well thought out.

Degerdon, W. E. *The Grammar of Woodwork*. London: Macmillan, 1892. Pp. 44. 60c. Contains information more valuable perhaps to the teacher than to the student. The principles of construction are given some prominence.

Denning, D. *Cabinet Making for Amateurs*. London: Upcott Gill. 2s 9d.

Denning, D. *Fret Work and Marquetry*. London: Dawborn & Ward. 2s 6d.

Denning, D. *The Art and Craft of Cabinet Making*. London: Whitaker. 5s. (Illus.) A practical handbook for the construction of cabinet furniture, dealing with the use of tools, formation of joints, hints on designing and setting out work, veneering, etc. Well planned and written in a pleasing, simple style.

Evans, T. J. *Notes on Carpentry and Joinery*. London: Chapman and Hall, 1897. Pp. 396.

Fronze'n, J. *A plea for Sloyd*. 30c.

Gass, G. I. M. *Woodwork*.

Goss, W. F. M. *Bench Work in Wood*. (Illus.) Boston: Ginn, 1888. Pp. 161. 70c. In many respects the best manual written as a guide to tool instruction. The mechanism of tools and the manner and processes of construction are clearly illustrated.

Götze, Woldemar. *Leipzig Series of Sloyd Diagrams*. London: Newmann, 1892. 65 plates.

Green, A. B. *Woodwork in the High School*. Pratt Institute Monthly. 9:8. One of the best articles for manual training teachers.

Hasluck, P. N. *The Cabinet Worker's Handy Book*. London: Dawborn & Ward. 1s.

Hasluck, P. N. *The Wood Worker's Handy Book*. London: Dawborn & Ward. 1s.

Hinckley, F. A. *Woodwork in the Common School*. Illustrated. Bradley, 1895. Pp. 126. \$1.00.

Hoffman, B. B. *The Sloyd System of Woodworking*. American Book Co., 1892. Pp. 242. \$1.00. An exposition of the system by one who has made a study at first hand. A book to be read by all teachers and a guide in bench work instruction.

- Hudson, J. C. Pestalozzi Series of Educational Woodwork. London: Newmann. Series I., 10s 6d. Series II., 7s 6d. Series III., 4s 6d.
- Hudson and Cooke. Woodwork. London: Newmann, 1896. Pp. 62, and 84 cards.
- Jay and Kidson. Exercises for Technical Instruction on Woodworking. London: Longmans, 1892.
- Johansson, Alfred. Practical Directions for Making the High School Series of Sloyd Models. London: Philip. Pp. 58. 80c.
- Kemp, Dixon. Practical Boat Building for Amateurs. London: Dawborn & Ward. 2s 6d.
- Kilbon, G. B. Elementary Woodwork. Boston: Lee, 1893. Pp. 99. 75c. The above is a good treatise of the elementary phases of handwork.
- Kilbon, G. B. How to Use Wood Working Tools. The directions are very concise and to the point.
- Kilbon, G. B. Knife Work in the School Room. Bradley, 1891. Pp. 193. \$1.00. (Illus.) Treatise on Elementary Manual Training, carried on with few tools, and in any school room. A regular progress is favored. Very good.
- Larsson, Gustaf. Teachers' Sloyd Manual. Boston: Mudge, 1890. Pp. 50. 50c.
- Larsson, Gustaf. Working Drawings in Sloyd. New York: Kellogg. \$1.50. Illustrations of some very practical models.
- Leavitt. Course in Wood Work for Grammar Schools. Boston.
- Leland, C. G. Fret Cutting. London: Dawborn & Ward. 6d.
- Leland, C. G., and Dawson, C. E. Decorated Woodwork. London: Dawborn & Ward. 6d.
- Leland, C. G., and Lambert, F. C. Gouge Work and Indented Woodwork. London: Dawborn & Ward. 6d.
- Lessons in Woodwork for Evening Classes. Prepared under direction of Hampshire County Council. London: Philip. \$.00.
- Lishman. A Drill Book for Elementary Schools. Longmans. \$2.50.
- Lock, C. J., and Leland, C. G. Venetian Marquetry and Inlaying. London: Dawborn & Ward. 6d.
- Lucas, E. A. The Elements of Woodwork; or Handwork in Wood. London: Newmann. 16 cards. 1s.

- Marshall, Percival. Working Diagrams, High School Series of Sloyd Models. London: Philip, 1893. 44 plates. \$1.40. Pp. 60.
- Miller. Training of a Craftsman.
- Mitchell, Chas. F. Forty Lessons in Carpentry Work Shop Practice. (Illustrated.) London: Cassell, 1891. Pp. 47.
- Molander, Anna. Scientific Sloyd. Bardeen, 1902. Pp. 63.
The idea contained in the book is somewhat suggestive, but the work is much too mechanical and not such as to appeal to the child.
- Moline, Illinois, Public Schools. Course in Handcraft.
- Murray, W. W. A Course in Manual Training for Grammar Schools. Rochester: Atheneum and Mechanics Institute, 1897. Pp. 72.
- Murray, W. W. Outline of a Course for Teachers. Rochester: Atheneum and Mechanics Institute. Pp. 12.
- Nelson, William. Woodwork Course for Boys. London; Philip, 1893. Pp. 60.
- Nelson, William. Working Diagrams, High School Series of Sloyd Models. London; Philip. 44 plates.
- Pearson, J. C. Manual Instruction. Woodwork. London; Philip, 1893. Pp. 11. 42 plates. \$4.20.
- Pearson, J. C. Woodwork for Standards V., VI., VII. London; Newmann
- Pierce, F. H. Elementary Manual Training. Pratt Institute Monthly. 9:8. Contains excellent ideas for the teacher of elementary handwork.
- Ponteau, E. Cabinet Making.
- Ponteau, E. Elementary Carpentry.
- Ponteau, E. Fret Sawing and Marquetry.
- Ponteau, E. Picture Frame Making.
- Ponteau, E. Wood Work. London, 1s 3d. each.
- Practical Suggestions for Making Sloyd Models. London; Philip Polytechnic Series. (London). Forty Lessons in Carpentry Work Shop Practice. 60c.
- Progressive Lessons in the Use of the More Common Wood Working Tools. Industrial School Association, 1887.
- Reichel. Some Impressions of a Course of Instruction at Nääs. London: Riches, 1896. Pp. 12.
- Ricks, George. Hand and Eye Training. Cards for Class Work. Five Sets, each, 35c.

- Ricks, George. *Manual Training. Woodwork.* London: Macmillan, 1898. Pp. 188.
- Rodhe, Eva. *The Eva Rodhe Model Series in Woodwork.* English and Swedish. Gothenburg: Baltzer, 1893. Pp. 6. 35 plates. 7s.
- Rodhe, Eva. *Woodwork Series for Children.* London: Philip. \$1.75. Consists mainly of flat forms of animals, leaves and various articles. Knife and fret saw used.
- Ross, George A. *Am. Elementary Course in Wood Work.* Flanagan, 1901. Pp. 117. \$1.00. This book is illustrated by cuts of photographs and drawings and their clearness adds to the value of the work. For those who are teaching in Secondary Schools, this book may contain little that is new. Exercises are given prominence.
- Salomon, Otto. *Teacher's Hand Book of Sloyd.* Silver, 1892. Pp. 213. \$1.60. Illustrated, with a chapter on Sloyd as an Educational factor. Also chapters on wood and timber, tools and their uses, the making of joints, etc., with directions. A very complete manual.
- Schwartz, Everett. *Sloyd or Educational Manual Training.* Boston: Educational Publishing Co. Pp. 275. \$1 00. Contains good ideas and well defined courses of instruction, but not adequate to the needs of many of our schools.
- Sickels, Ivin. *Exercises in Woodworking.* American Book Co., 1889. Pp. 158. \$1.00. A very good book for reference and comparison, but should not be followed too closely.
- Simmonds, T. C. *Woodwork.* London: Bemrose. Pp. 70. 1s. (Illus.)
- Smith, R. H. *Cutting Tools Worked by Hand and Machine.* \$1 25.
- St. John and Turrell. *The County Council Course of Manual Instruction.* London: Simpkins. 20 plates.
- Struthers, J. *Report on Sloyd and Kindergarten Occupations in the Elementary School.* London: Eyre & Spottiswoode.
- Sutcliffe, J. D. *Handcraft; English Exposition of Sloyd.* London: Griffith, 1890. Pp. 77. \$1.00.
- The County Council Course of Manual Instruction.* London: Philip
- Trainor, Richard. *Educational Woodwork.* Manchester, Eng.: The Author, 1898. 6d. Course I., 60 cards. Course II., 40 plates.

- Unwin, W. C. Exercises in Woodworking for Handicraft Classes in Elementary and Technical Schools. London: Longmans, 1887. 28 plates. \$1.50.
- Upham, A. A. Fifty Lessons in Woodworking. Kellogg, 1892. Pp. 99. 50c. A series of lessons for the bench worker, illustrative particularly of the joint idea.
- Wake, Richard. "The New Education." Manual Training Woodwork. London: Chapman, 1899. Pp. 360.
- Wheeler, C. G. Woodworking for Beginners. Putnam, 1900. Pp. 551. \$3.00. This is a most valuable book. It is fully illustrated and written in a pleasing, straightforward style. The book is calculated to stimulate boys to carry on various occupations at home, and to teach them the proper methods of work. The Equipping of the shop; tools and their uses; treatise on wood, together with suggestions for making useful articles, are set forth.
- Whittaker, Channing. How to Use Woodworking Tools. Heath, 1888. Pp. 102. 60c. A clear exposition of how to handle the principle bench tools and to execute the fundamental tool processes, with directions for making the more common joints.
- Wood, George. Manual Instruction in Woodwork. Leeds: Arnold, 1892. Pp. 104. 5s.
- Woodwork in the High School. Pratt Institute Monthly, 9:8. A splendid article.
- Working Diagrams of Sloyd Models. (Metric system). London: Philip.
- Wyatt, Chas. H. Manual of Continuation Schools and Technical Instruction, III. London: Heywood, 1892. Pp. 295.
- Young, C. S. Manual Training for the Standards. Leeds: Bean. Pp. 30.

BENT IRON.

- Binns, Mrs. Progressive Exercises for Bent Iron Work, with Diagrams. London: Newmann. Pp. 14. 1s.
- Day, Geo., and Leland, C. G. Bent Iron Work. London: Dawborn & Ward. 6d.
- Erskine, F. J. Bent Iron Work. London: Dawborn & Ward. 1s.

- Mills, L. and V. Bent Iron Work. (Art Designs For.) London: Newmann. 21 plates. 5s
- Venetian Iron Work. Metropolitan Handy Series 1:1. Pp. 84. Butterick Publishing Co. 25c An illustrated book, treating the subject in a clear manner. Many attractive forms, both elementary and complex, are shown.

WOOD CARVING.

- Ball, F. H. Wood Carving for Beginners. Photo Beacon Co., 1900. Pp. 30. 25c. This pamphlet is a revision of an English publication and suited to American needs.
- Bemrose. Manual of Wood Carving. \$2.50.
- Denning, D. Wood Carving for Amateurs. London: Dawborn & Ward. 1s.
- Hewett, G. C. Wood Carving. London: King & Sons, 1891. 2s 2d.
- Holme, Charles. A Course of Instruction in Wood Carving According to the Japanese Method (Illustrated). London: The Studio. Pp 70.
- Hulme, Edward. Examples for Fret Cutting and Wood Carving. \$3.00.
- Larsson, Gustaf. Handbook of Geometric Wood Carving. New York: Kellogg, 1895. Pp. 32. Some splendid designs in geometric carving for decorative purposes are shown.
- Leland, C. G. A Manual of Wood Carving. Scribners, 1891. Pp. 162. \$1.75. A good manual, and reliable.
- Leland, C. G. Wood Carving. London: Dawborn & Ward. 1s.
- Martineau, Gertrude. Drawing and Wood Carving. Longmans, 1893. 75c.
- Perrin, T. J. Practical Designs for Wood Carving. London: Dawborn & Ward. 3s 6d.
- Phillips, J. Wood Carving (Illustrated.) London: Chapman, 1896. Pp 93. \$1 00.
- Ponteau, E. Wood Carving for Amateurs.
- Rowe, Eleanor. Hints on Chip Carving London: Sutton, 1892.
- Seaton, Thos. A Manual of Fret Cutting and Wood Carving. London: Routledge.



- Wood Carving for Amateurs. London: Dawborn & Ward. 2s.
Woodsend, Chas. J. Practical Wood Carving. New York:
Williams, 1897. Pp. 86. \$1.00.

PYROGRAPHY.

- Ball, F. H. Pyrography or Burnt Wood Etching. Photo Beacon
Co., 1900. Pp. 30. 25c.
Maude, Mrs. M. A Hand Book of Pyrography.

TURNING AND PATTERN MAKING.

- Compton, A. Speed Lathe.
Golden, M. J. A Laboratory Course in Wood Turning. Ameri-
can Book Co., 1897. Pp. 69. 80c. A suggestive treatise.
Hasluck, P. N. The Wood Turner's Hand Book. London: Daw-
born & Ward. 1s.
Holzapffel, Chas., and J. J. Turning and Mechanical Manipula-
tions. London: Holzapffel & Co., 1875-1884. 6 parts.
Holzapffel, J. J. Home Made Lathes. London: Dawborn &
Ward. 6d.
Lambert, F. C. Wood Turning. London: Dawborn & Ward.
Pattern Making. London: Crosby, 1885. Pp. 270.
Ponteau, E. Pattern Making.
Ponteau, E. Wood Turning.
Rose, Joshua. Pattern Makers' Assistant. New York: Van
Nostrand, 1889. Pp. 324.
Watson, C. P. A Manual of the Hand Lathe. \$1.25.

METAL AND MACHINE WORK.

- Bolland, Simpson. The Iron Founder. New York: Wiley, 1893.
Pp. 332.
Bolland, Simpson. The Iron Founder—Supplement. New York:
Wiley, 1896. Pp. 392.

- Gardner, J. S. *Iron Work*. London: Chapman, 1896. 2 vols. Pp. 152 and 202. Methods and designs are excellent.
- Hiorns, A. H. *Metal Coloring and Bronzing*. New York: Macmillan, 1892. Pp. 336.
- International Correspondence Schools—*Shop and Foundry Practice*. Scranton: International Text Book Co., 1901. 4 vols
- Leland, C. G. *Elementary Metal Work*. London: Whittaker, 1894. Pp. 111. \$1.50. (Illus.)
- Marshall, Percival. *Practical Lessons in Metal Turning*. London: The Book Dept., 6 Farrington ave. 2s 3d. A splendid book for amateur workers.
- Meyer, F. S. *A Handbook of Art Smithing*. New York: Bruno Hessling, 1896. Pp. 207. \$2.40. An excellent book.
- Overman, Frederick. *Moulders' and Founders' Pocket Guide*. Philadelphia, 1889. Pp. 342.
- Pearson, J. C. *Metal Work*. London: Newmann.
- Polytechnic Series (London). *Forty Lessons in Engineering Work Shop Practice*. 60c.
- Richardson, M. T. *Practical Blacksmithing*. The Author. New York, 1888. 2 Vols. Pp. 224 and 226.
- Rose, Joshua. *Complete Practical Machinist*. Philadelphia: Baird, 1886. Pp. 439.
- Rose, Joshua. *Modern Machine Shop Practice*. Scribner, 1889. Pp. 479 and 484.
- West, T. D. *American Foundry Practice*. New York: Wiley, 1888. Pp. 408.
- West, T. D. *Moulders' Text Book*. New York: Wiley, 1888. Pp. 461.

MISCELLANEOUS.

- Annual Report, Committee on Manual Training, Boston: School Document, No. 18, 1897.
- Annual Report, Committee on Manual Training, Boston: School Document, No. 4, 1901 (Illustrated).
- Bamberger, G. *Manual of Paper Folding, Clay Modeling and Cardboard Work*. A. Flanagan, 1891. Pp. 116 50c. This manual is the result of much care and years of experience. It is based upon the work actually done by the pupils in the

class room. It is educative in its purpose, broad in its scope and clear in presentation

Beardsley, R. F. *Course of Study—Manual Training Department of Elementary Public Schools*, Chicago, 1899-1900. Chicago, 1899. Pp. 296. One of the most suggestive courses published. It contains illustrations and directions for the making of models in wood, cardboard, wirework, venetian iron, chip carving; with chapters on book mending, woods of the United States, tool instruction, equipment in manual training shop and a bibliography prepared by the Eastern Manual Training Association. The drawings and directions are clear. The one criticism would be that the unskilled teacher would not be able to make a good selection of projects, owing to the somewhat hap-hazard arrangement of the material.

Bevis, A. W. *Practical Lessons in Hand and Eye Training*. Illustrated. London: Newmann, 1895. 4 parts. Part I. Paper Folding. Pp. 86. 2s. Part II. Brick Laying, Parcel Tying. Pp. 88. 2s. Part III. Wire Work Pp. 74. 2s. Part IV. Cardboard Modelling. Pp. 118. 3s 6d.

Compton, H. W. *What a Small City is Doing in Industrial Education*. Circular, No. 3, 1887. Pp. 129.

Course of Study for the Indian Schools of the United States. Miss Estelle Reel, Supt. Washington, 1901. Pp. 276. This is a most valuable document, containing as it does suggestions for many lines of manual work and showing how these may be associated with the life interests and book topics of the pupils.

Cutler, C. F. *Primary Manual Training*. Boston: Educational Publishing Co., 1891. (Illus.) Pp. 130. Treats of form study, clay, paper and color work.

Elementary Manual Training. Pratt Inst. Monthly. '9:8. Strong and well written. Not a theoretical article, as the work has been actually performed.

Götze, Woldemar. *Educational Handwork Adapted for Teachers and Pupils in Rural Districts*. London: Newmann & Co. Pp. 40. Exemplifies work of a rough nature that can be carried on with mean equipment. Comprises garden, wood and metal work.

- Götze, Woldemar. *Manual Training Made Serviceable to the School*. London: Newmann. Pp. 157. \$1.25. Treats of bench, metal, cardboard and glass work, with chapters on the service of manual training in and application to school work. A suggestive book.
- Hailmann, W. N. *Primary Methods*. American Book Co., 1887. Pp. 166. (Illus.)
- Haney, Jas P. *Teachers' Monograph. Manual Training Number*. 25c.
- Haney, Jas. P. *The Manual Training Schedule*. Dept. of Education, New York City, 1900-1901. Pp. 56. Both publications are replete with thought and illustrations of the best. The Schedule is completely illustrated and is extremely broad in its presentation of subject matter for the elementary school.
- Hewett, William. *A Graduated Course of Simple Manual Training Exercises for Educating the Hand and Eye*. London: Longmans, 1893. Pp. 229. 2 parts, each, 80c.
- Kalb, Gustav. *Elementary Manual Training*. London: Newmann, 1894.
- Kalb, Gustav. *First Lessons in Hand and Eye Training*. London: Newmann, 1893. Pp. 143. 3s. The forms of work shown are such as would lie between the kindergarten and primary school ages.
- Kalb and Field. *First Lessons in Manual Work*. \$1.20.
- Klemm, L. R. *European Schools*. Appleton, 1889. Pp. 429. A most readable and instructive book, and the result of careful investigation on the part of an excellent authority, into the methods and practice of the schools of Europe. Object teaching, handwork of the various varieties, the graphic art, etc., are liberally dealt with. The illustrations add much to the value of the book.
- Love, S. G. *Industrial Education; a Guide to Manual Training*. New York: Kellogg, 1837. Pp. 306. A series of lessons illustrating the use of elementary processes in Manual Training, in conjunction with the regular school work. The occupations are varied, but the educational value of some of them may be questioned.
- Manual Training Course of Study and Teachers' Manual*. Board of Education. New York City, New York: Babcock, 1892. Pp. 149.

- Manual Training in Public Elementary Schools. 1887-1901. London: Alexander and Shephard, 1901. Pp. 23, and 9 full page illustrations. Adopted by the Joint Committee on Manual Training.
- Manual Training in the State Normal School of Colorado. Greeley, Colorado: Bulletin No. 5-1902. Pp. 22, and 7 full page plates. Illustrates work of the various grades and the high school.
- Manual Training Syllabus. High School Department, University of the State of New York. Bulletin No. 9, 1900 Pp. 230-284. 10c. This Syllabus is well illustrated and contains some good ideas on high school work. A partial bibliography is appended.
- Outline Course of Study in Hand Work in the Horace Mann School. Teachers College Record. 1:5. Every teacher should study this pamphlet. It contains the most modern and educational thought and shows the connection of hand work to book studies.
- Proceedings Pacific Manual Training Teachers' Association. Arthur H. Chamberlain, President, Pasadena, Cal., 1902. Pp. 62. 25c.

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- Batchelder, Ernest A. Design in Its Relation to Constructive Work.
- Chamberlain, Arthur H. Introduction.
- Dobbs, Ella V. Cardboard Construction; Its place in the Elementary School.
- Dutton, Mrs. Grace E. The Influence of Dress.
- Ingraham, Lena L. Correlation in Education.
- Miller, Chas. M. Occupations.
- Olson, Albert L. Industrial Drawing in the Public Schools.
- Sterrett, Fannie F. The Educational Value of Clay Modeling.
- Stevenson, Florence A. Cookery. These papers deal with live problems touching the various phases of hand work. They are practical throughout, and will give teachers an idea of what can be and is being done in the school room.
- Ricks, George. Hand and Eye Training. London: Cassell,

1889. 2 vols. Pp. 67 and 64. \$2.00 each. The books are finely illustrated and well written. They cover elementary and advanced work, and will give many ideas to the teacher seeking knowledge.
- School Gardens in Europe. (Illustrated.) Special Consular Report. Vol. 20, Part 2. 1900.
- St. John, George. Manual Instruction. London: Blackwood, 1891. Pp. 82.
- Straight, True Aim of Industrial Education, Ginn. Pp. 16. 10c.
- Tadd, J. L. New Methods in Education. Springfield: Judd, 1899. Pp. 432. \$3 00. A very radical exposition of the manual training idea. Drawing and wood carving are given chief prominence in the scheme, and the ambidextrous idea is kept always in mind.
- Thompson, L. D. Two books, each 25c.
- Thompson, L. S. Educational and Industrial Drawing.
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TITLES IN FOREIGN LANGUAGES.

AUSTRIA.

Bericht zur Feier des 25 Jährigen Bestehens der Kaiserlich-Königlichen Mechanisch-Technischen Lehrwerkstätte In Klagenfurt, 1861-1886.

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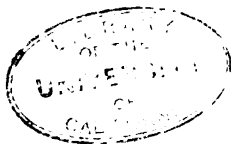
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